BOWEN JIANG

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science · Computer Science and Mathematics   Expected May 2027
- GPA: 4.0/4.0 (Cumulative)
- Honors: Mathematical Studies Program, Dean's List High Honors
- Activities: Singapore Students Association (IT Chair), Carnegie Mellon Informatics and Mathematics Competition Club, Fencing Club

AWARDS

- Putnam Mathematical Competition · Top 500   2023
- Singapore National Olympiad in Informatics · Gold Medal   2019, 2020

EXPERIENCE

Carnegie Mellon University Computer Science Department   Pittsburgh, PA
Teaching Assistant   Aug 2024 – Dec 2024

Infocomm Media Development Authority   Singapore
Machine Learning Intern   May 2024 – Aug 2024
- Prototyped agentic LLM workflows in LangChain and Python to perform speaker research, accelerating existing workflows
- Worked with Amazon Web Services to host open-source LLMs such as Meta Llama and Mistral
- Discovered user and organizational needs and by conducting interviews and use-case meetings

GIC Private Limited   Singapore
Quantitative Analyst Intern   Jan 2023 – June 2023
- Evaluated parametric and non-parametric treatments for computing option-implied distributions
- Built software packages for market data processing, distribution visualization, and portfolio optimization, in Python and R
- Accelerated routines with C++, vectorization, and parallelization, achieving speed-ups of 20×
- Documented process and use of the project in long-form white paper presented to senior team members

Republic of Singapore Navy   Singapore
Platoon Sergeant   Jan 2021 – Nov 2022

National University of Singapore · School of Computing   Singapore
Olympiad Trainer (Contract)   Dec 2019
- Taught informatics olympiad content to class of 30+ secondary school and junior college students to prepare them for the National Olympiad in Informatics

PROJECTS

Variable Lending Pool
Smart contract to automatically mint and loan tokens
- Developed in team with CMU Blockchain club, performing regular code reviews
- Technologies: Web3, Solidity, Typescript

Absecurity
Authentication portal for businesses
- Built during TartanHacks 2024
- Technologies: React, Node.js, Javascript